

VLO 12V LED Small Accent

One light, three lumen levels.

Our VLO Accent fixture is equipped with the Lumen Effects System, which allows you to easily switch between three lumen outputs: 100, 200, or 300, with the use of the Magnetic Key. Its field configurable design allows for customization based on the needs of the application.

Variable	Lumens		
Level 1	Flashes one time		100 lm
Level 2*	Flashes two times		200 lm
Level 3	Flashes three times		300 lm

*Factory setting

VLO 12V LED Small Accent with Lumen Effects System makes designing and modifying landscape lighting easier.



Lumen Effects System eliminates the need to mechanically adjust or open the fixture, supporting product longevity.



Flexible Lumen Levels allows you to set and adjust the lumen levels as the landscape needs change.



Sealed and fully encapsulated to safeguard from water ingression and the outdoor elements – helping to extend the life of the product.



Versatile IP66 rated design provides a dust and water tight housing that can protect against strong jets of water that can occur in coastal areas with strong storms or applications close to sprinklers.



2,000-volt fixture surge protection protects against power surges and irregularities.



Ordering Guide (product number breakdown)

Example: 16015 CBR 30

Item Number for Fixture & Beam Angle:

16015 = 15° Narrow Spot **16016** = 35° Flood **16017** = 60° Wide Flood

16015

Product Finish:

AZT = Textured Architectural Bronze

BKT = Black

CBR = Centennial Brass

CBR

3 Color Temperature:

27 = 2700K, Warm White **30** = 3000K, Pure White

3 0

BEAM SPREAD







PHOTOMETRICS

16015AZT27 16015BKT27 16015CBR27

15° Narrow Spot 2700K - Warm White 16015AZT30 16015BKT30 16015CBR30

15° Narrow Spot 3000K - Pure White 16016AZT27 16016BKT27 16016CBR27

35° Flood 2700K - Warm White 16016AZT30 16016BKT30 16016CBR30

35° Flood 3000K - Pure White 16017AZT27 16017BKT27 16017CBR27

60° Wide Flood 2700K - Warm White 16017AZT30 16017BKT30 16017CBR30

60° Wide Flood 3000K - Pure White

	Item	16015 (Low - 100 lm)				
(0	Beam	15°	ot			
LEVEL 1 LUMENS	Candela	Max	Candela: 2	122		
\geq	Distance	Foot-candles	100 lm	Beam Width		
\preceq	60'	60' 0.3	13.7'			
Ξ.	48'	0.5	0.5			
2	36'	1		8.2'		
=	24'	2.1		5.5'		
	12'	8.6		2.7'		
	8'	19.3	V	1.8'		

Item	16016 (Low - 100 lm)					
Beam	35° Flood					
Candela	Ma	ax Candela: 45	2			
Distance	Foot-candles	Foot-candles 100 lm				
40'	0.2		24.5'			
32'	0.3		19.6'			
24'	0.5		14.7'			
16'	1		9.8'			
8'	4.1		4.9'			
4'	16.5	V	2.5'			

Item	16017 (Low - 100 lm)				
Beam		60° Wide Flood			
Candela		Max Candela: 179			
Distance	Foot-candles	100 lm	Beam Width		
40'	0.1		46.2		
32'	0.1		37		
24'	0.2		27.7		
16'	0.4		18.5		
8'	1.7		9.2		
4'	6.8		4.6		

	Item	16015	(Mid - 20	10 lm)		
()	Beam	15° Narrow Spot				
LEVEL 2 LUMENS	Candela	Max	Candela: 38	827		
\leq	Distance	Foot-candles	200 lm	Beam Width		
	60'	0.6	13.7'			
L 2	48'	0.9		10.9'		
N.	36'	1.6		8.2'		
=	24'	3.6		5.5'		
	12'	14.5		2.7'		
	8'	32.6		1.8'		

Item	16016 (Mid - 200 lm)					
Beam	35° Flood					
Candela	Ma	Max Candela: 789				
Distance	Foot-candles	200 lm	Beam Width			
40'	0.3		24.5'			
32'	0.5		19.6'			
24'	0.9		14.7'			
16'	1.9		9.8'			
8'	7.7	4.9'				
4'	30.9	V	2.5'			

	Item	160	n)	
	Beam		60° Wide Flood	
	Candela		Max Candela: 311	
n	Distance	Foot-candles	200 lm	Beam Width
	40'	0.1		46.2
	32'	0.2		37
	24'	0.3		27.7
	16'	0.8		18.5
	8'	3.1		9.2
	4'	12.3		4.6

	Item	16015 (High - 30	00 lm)	
(0	Beam	15° Narrow Spot			
LUMENS	Candela	Max	Max Candela: 5382		
\leq	Distance	Foot-candles	300 lm	Beam Width	
	60'	0.8		13.7'	
:L 3	48' 36' 24' 12'	1.3		10.9'	
-EVEL		2.3		8.2'	
۳		5.2		5.5'	
		21		2.7'	
		47.2	V	1.8'	

Item	16016 (High - 300 lm)						
Beam		35° Flood					
Candela	Ma	Max Candela: 1118					
Distance	Foot-candles	300 lm	Beam Width				
40'	0.5		24.5'				
32'	0.7		19.6'				
24'	1.2		14.7'				
16'	2.8		9.8'				
8'	11.1		4.9'				
4'	44.5	V	2.5'				

Item	16017 (High - 300 lm)					
Beam		60° Wide Flood				
Candela		Max Candela: 438				
Distance	Foot-candles	300 lm	Beam Width			
40'	0.2		46.2			
32'	0.3		37			
24'	0.5		27.7			
16'	1.1		18.5			
8'	4.4		9.2			
4'	17.6		4.6			



FINISH OPTIONS



AZT - Textured Architectural Bronze



BKT - Textured Black



CBR - Centennial Brass

PERFORMANCE

Output Position	Level 1	Level 2	Level 3
Lumen Output	100 lm	200 lm	300 lm
Input Voltage	9V-15V	9V-15V	9V-15V
Power (VA) @ 15V AC	3.5VA	5.5VA	8VA
Power (W) @ 15V DC	2W	3.5W	5.5W
Efficacy (Im/W @ DC)	50 lm/W	57 lm/W	55 lm/W
Halogen Equivalents	10W	20W	30-35W

SPECIFICATIONS

Fixture

Light Source Integrated LED
Number of LEDs 1 High Output LED
Color Temperature 2700K, 3000K

Color Rendering Index 80

Beam Angle 10°, 35°, 60° Binning 3 Step Fixture can be used in up or down position.

Input

Input Voltage Range 9 – 15V AC or DC with no loss in light output

Input Frequency 47 - 63Hz

Input Current 877mA max@15VAC

Inrush Current 9A Max

Efficiency > 57L/W @ 12VDC Power Factor > 0.7 @ 15V

Environmental

Environmental Protection Rating Wet, IP66
Operation Ambient Temperature -25°C - +40°C
Lumen Maintenance (L70) 50K Hours

Mechanical & Housing Specification

 $\begin{array}{ll} \mbox{Diameter/Height} & 4.5"\,\mbox{L}\,\mbox{x}\,2.0"\,\mbox{W}\,\mbox{x}\,3.75"\,\mbox{H} \\ \mbox{Housing Material} & \mbox{Cast Aluminum, Cast Brass} \end{array}$

Housing Color & Surface AZT, BKT or CBR

Weight 13 oz (Aluminum), 30 oz (Brass)

Lens Material

Tempered, shock resistance glass with high tolerance for thermal expansion and stress.

Wire

18 AWG, 105°C, 300V 48" of usable #18-2 SPT-1W leads.

Optics

Custom reflector provide uniform center-to-edge light distribution. Available in a 15, 35 and 60 degree beam angles.

FIXTURE ATTRIBUTES

Included Accessories

8" Slotted In-ground Stake, 2 Gel-Filled Wire Nuts, Locknut, and Magnetic Key.

Optional Accessories

 3" Riser Stem
 15509CBR

 6" Riser Stem
 15645AZT, BKT, 15510CBR

 12" Riser Stem
 15656AZT, BKT, 15511CBR

 18" Riser Stem
 15657AZT, BKT, 15512CBR

 24" Riser Stem
 15658AZT, BKT, 15513CBR

 Adjustable Riser Stem
 15570AZT, BKT

Stém Coupler 15649AZT, BKT
Mounting Base 15493CBR
Two Fixture "T" 15515CBR
Surface Flange 15601AZT, BKT

 Bracket
 15607AZT, BKT, 15516CBR

 Tree Mount
 15609AZT, BKT, CBR

 Elbow
 15647AZT, 15514CBR

Gutter Mount 15489CBR

Long Cowl 16067AZT, BKT, CBR

 Amber Lens
 16071AMB

 Green Lens
 16071GRN

 Hexcell Louver
 16073BK

 Beam Expander
 16090FRO

 8" Stake
 15575BK

 14" Stake
 15576BK

 Power Post
 15276BK

LOAD CHART

Power	Wire Gauge / Length (ft/m) Load Chart				
(VA)	10 AWG	12 AWG	14 AWG	16 AWG	
0-20 VA	1860'/567 m	1150'/351 m	730'/223 m	450'/137 m	
40 VA	930'/283 m	580'/177 m	370'/113 m	230'/70 m	
60 VA	620'/189 m	390'/119 m	240'/73 m	150'/46 m	
80 VA	470'/143 m	290'/88 m	180'/55 m	110'/34 m	
100 VA	370'/113 m	230'/70 m	140'/43 m	90'/27 m	
. 1001/4	Second Technical Second				

>100 VA Consult Technical Support

TROUBLE SHOOTING

Fixture does not illuminate	Verify power connections. Review installation guide for installation problem. Ensure manual reset breaker has not been tripped.
Fixture flashes	Verify load calculations for the installation. Check voltage at affected fixture. Verify you are on 15V output tap.
Fixture turns off	Verify power connections. Review installation guide for installation problems. Ensure manual reset breaker has not been tripped. Check voltage drop at fixture.
Fixture trips breaker	Check installation for a possible short or overload state. Isolate the identified short and replace affected fixture or remove fixture(s) installed in overload.
Fixture returns to original lumen output	The fixture has to be powered on for 2 minutes after final adjust to exit programming mode.

LISTING

UL 1838 Listed. Low Voltage Landscape Lighting Systems.

CSA C22.2#250.7 Listed.

FCC Part 15, subpart B, Class B



WARRANTY

Backed by our 15 year limited warranty. Visit **Kichler.com/Warranty** for details.

DISCLOSURE

- 1. Chip binning ranges: (2700K 80+ CRI: 3 step), (3000K 80+ CRI: 3 step). LED chip data measured in accordance to IES LM-80.
- 2. Fixture has a 90% confidence luminous flux range to stated 3000K CCT target. Photometric (flux and color) data has been measured in accordance to IES LM-79.
- Actual efficacy value can be calculated as follows: Lumen value divided by average power consumption.
- 4. Do not extend beyond the recommended maximum run length.
- 5. Recommend product be installed with 10 or 12 gauge wire.
- 6. Recommend 80% load/20% overhead rule for fixture load planning in reference to the power source. Calculating fixture loading this way provides additional resource for fixture adjustment and loss due to voltage drop due to wire run lengths.
- 7. We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.
- 8. Damage caused by misuse (including use for an unintended application) or improper or incorrect installation, maintenance or repair, including failure to follow the applicable care and cleaning instructions, is not covered by our warranty.

ADVANCED PRODUCT SOLUTIONS (APS) & LAYOUT TEAM

Have installation issues or a product and location inquiry? We have you covered. Our APS team can provide you with technical guidance and professionally designed landscape lighting layouts free of charge.

Visit Kichler.com/APS, reach out to us at layouts@kichler.com, or by phone Monday - Friday, 8:00 am to 6:30 pm EST, at 844-KICHLER (844-542-4537) to get started.

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See the entire VLO product line at **Kichler.com/VLO**

